

CLAIMS

1. An insulation component for thermal and/or sound insulation, particularly for motor vehicles, which is at least partially provided with a fire-retardant coating (3, 5, 6), characterized in that the fire-retardant coating (3, 5, 6) is composed of at least the following components:

40 to 90 wt. %	of a ceramic adhesive,
5 to 50 wt. %	ceramic micro hollow spheres having a grain size in the range from 0.1 to 3 mm, and
0.1 to 10 wt. %	of a propellant which expands under the effect of heat.
2. The insulation component according to Claim 1, characterized in that the fire-retardant coating (3, 5, 6) contains, as further components,

0.1 to 5 wt. %	aluminum powder having a grain size less than or equal to 50 μm , and/or
0.1 to 20 wt. %	aluminum hydroxide.

3. The insulation component according to Claim 1, characterized in that the fire-retardant coating (3, 5, 6) contains 5 to 30 wt. % thermoplastic powder adhesive as a further component.
4. The insulation component according to Claim 3, characterized in that the thermoplastic powder adhesive is made of CO-polyethylene terephthalate (CO-PET), co-polyamide (CO-PA), or TPO.
5. The insulation component according to one of Claims 1 to 4, characterized in that the ceramic adhesive is a fireproof ceramic adhesive based on a water glass solution.
6. The insulation component according to one of Claims 1 to 5,

characterized in that the ceramic adhesive has a temperature resistance of greater than 1000°C.

7. The insulation component according to one of Claims 1 to 6,
characterized in that the ceramic micro hollow spheres have the following composition:
55 to 68 wt. % SiO_2 ,
25 to 36 wt. % Al_2O_3 , and
0 to 6 wt. % Fe_2O_3 .
8. The insulation component according to one of Claims 1 to 7,
characterized in that the ceramic micro hollow spheres have temperature resistance of greater than 1000°C.
9. The insulation component according to one of Claims 1 to 8,
characterized in that the propellant is made of hollow polymer plastic particles, which have a gas-tight covering that is insoluble in water, in which liquid and/or gaseous hydrocarbon is encapsulated.

10. The insulation component according to Claim 9,
characterized in that the hollow polymer plastic
particles expand under the effect of heat from a
temperature greater than 100°C.
11. The insulation component according to Claim 9 or 10,
characterized in that the hollow polymer plastic
particles burst under the effect of heat at a
temperature greater than 130°C, the liquid and/or
gaseous hydrocarbon being released as a propellant
gas.
12. The insulation component according to one of Claims
9 to 11,
characterized in that the hollow polymer plastic
particles have a grain size in the range from 2 to
50 µm.
13. The insulation component according to one of Claims
9 to 12,
characterized in that the insulation component is
made of multiple layers (1, 2, 4) of nonwoven
material, foam, and/or heavy layer material, at

least two of the layers (1, 2, 4) being glued to one another by the fire-retardant coating (3, 5, 6).

14. The insulation component according to one of Claims 9 to 13,
characterized in that the insulation component is provided on the outside with the fire-retardant coating (5) and an aluminum film (7), the aluminum film (7) being positioned exposed and being glued to a further layer (4) of the insulation component by the fire-retardant coating (5).